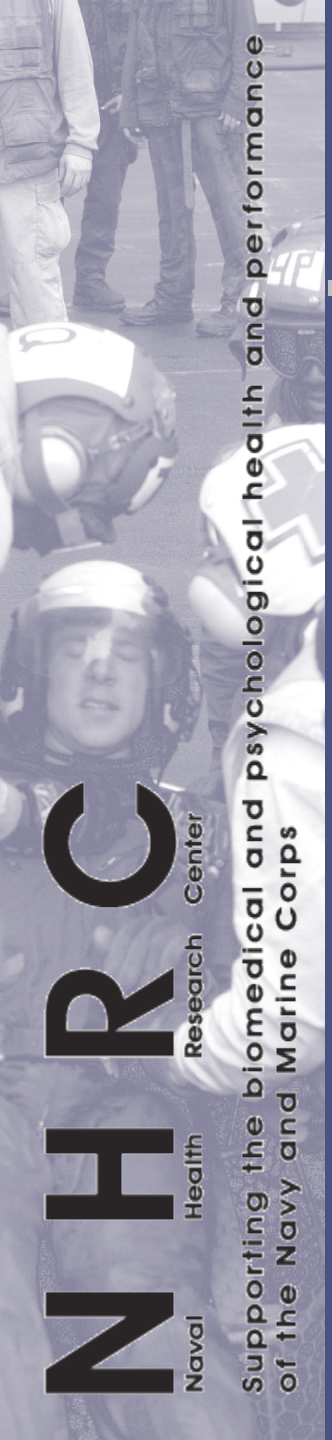

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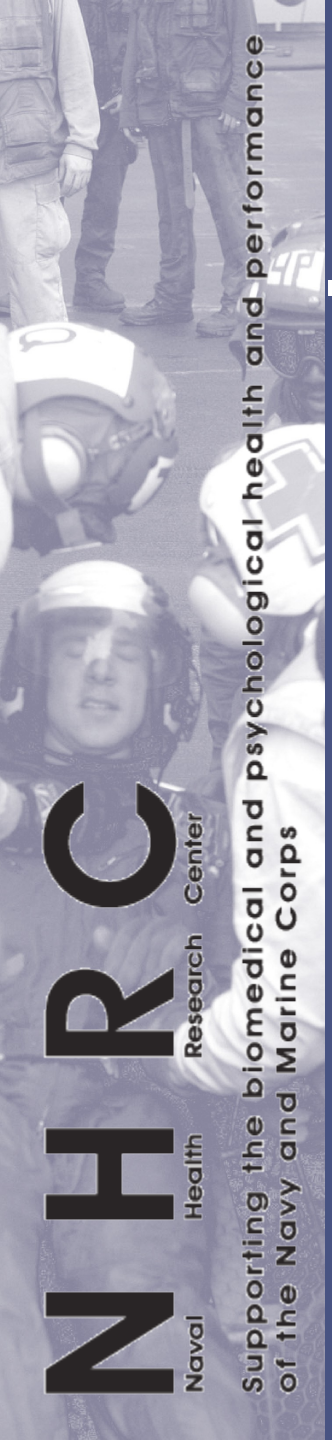
Supporting the biomedical and psychological health and performance of the Navy and Marine Corps

Post-Deployment Health Studies

DoD Center for Deployment Health Research

Fleet Review
04 December 2003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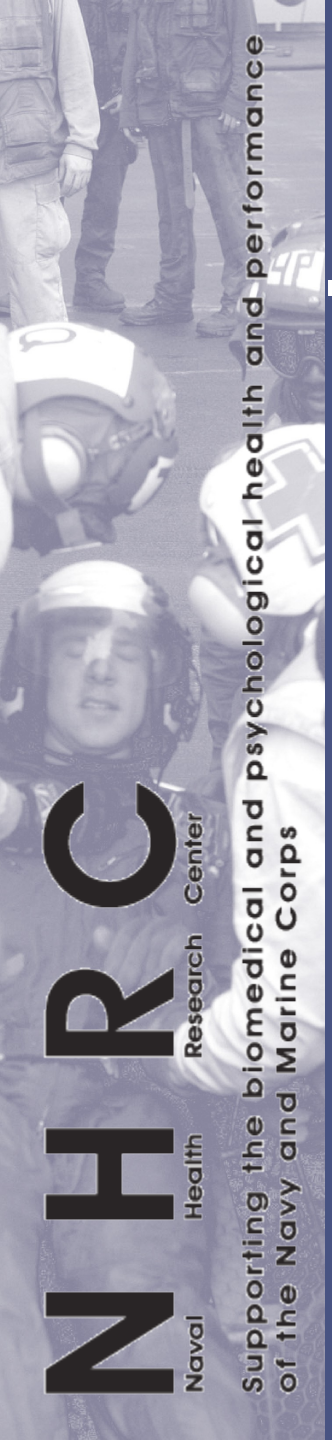
Post-Deployment Health Studies

Background

- DoD Center for Deployment Health Research was established in Sep 1999 to conduct epidemiologic research of importance to deployable military personnel and their families.

- Research portfolio includes studies of symptoms, healthcare use, reproductive health, mortality, and other health outcomes.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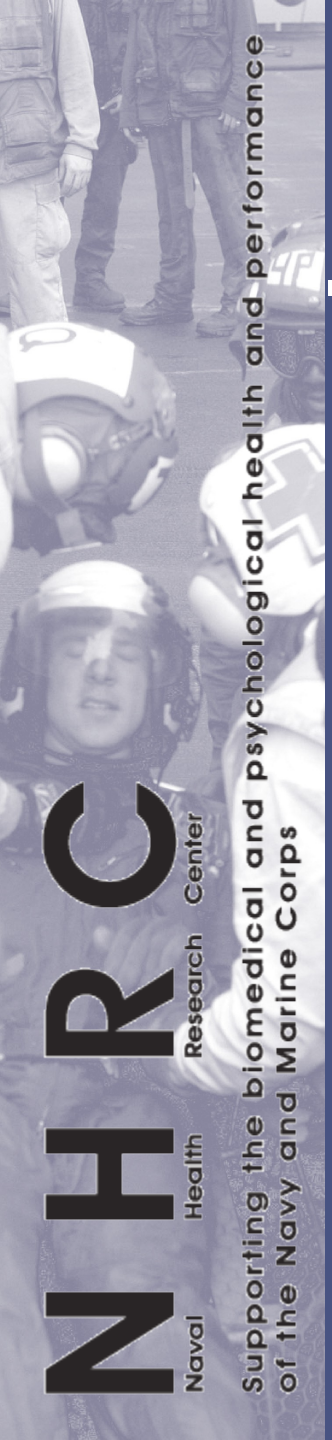
Post-Deployment Health Studies

The Legacy of the Gulf War of 1991

- Multiple expert review panels
- VA and DoD Registries
- Over $150M in medical research
- Extensive risk management program (OSAGWI)
- Overall, US spent estimated $1 billion on deployment-associated morbidity.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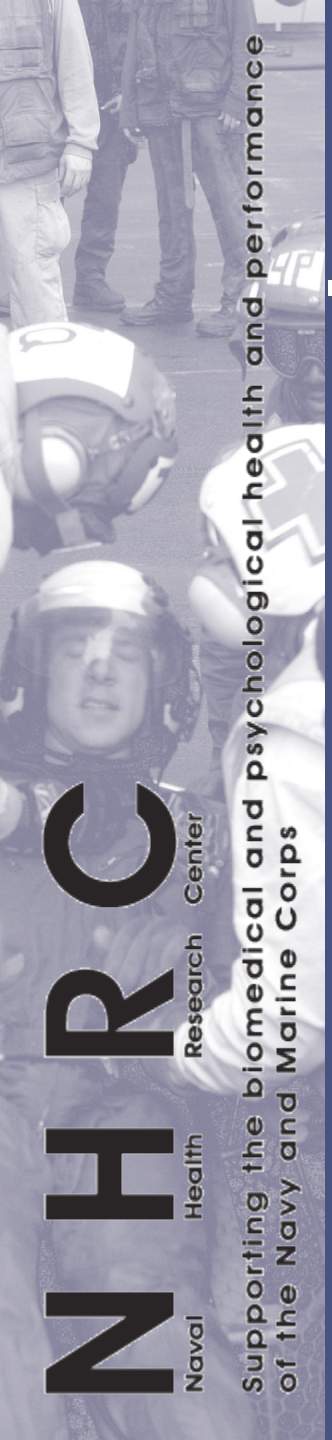
Original Gulf War Epidemiological Studies at NHRC

- Hospitalization study (N Eng J Med, 1996)
- Birth defects study (N Eng J Med, 1997)
- Goldenhar syndrome (Teratology, 1997)
- Registry study (Amer J Epidemiol, 1998)
- Testicular cancer (Epidemiol, 1998)
- *M. fermentans* study (Am J Trop Med, 1999)
- Seabee study (Am J Trop Med, 1999)
- Khamisiyah study (Am J Epidemiol, 1999)
- Mental health hosp (Clin Epidemiol, 1999)
- Nonfederal hospitalization study (Am J Epidemiol, 2000)
- Factor analysis study (Am J Epidemiol, 2000)
- PB and Gulf War veterans (Mil Med, 2000)
- SLE, ALS, and fibromyalgia (Amer J Epidemiol, 2000)
- GWV and birth defects, Hawaii (Teratology, 2000)
- GW Registries (J Occ Environ Med 2002)
- Symptoms in Seabees (Am J Epidemiol 2002)
- Oil well smoke (Am J Epidemiol 2002)

GW Bibliography, 200



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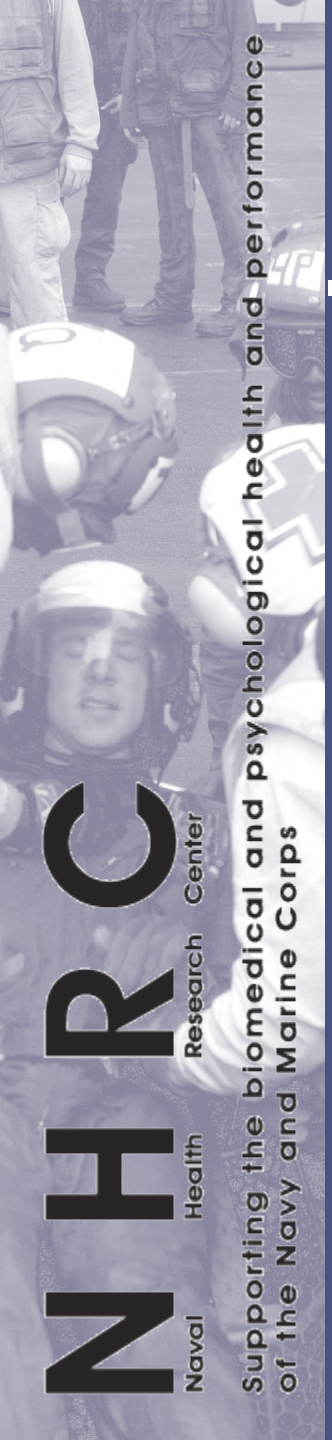
Research Collaborators

Army Center for Health Promotion and Preventive Medicine
US Army Research Inst of Environmental Medicine
Walter Reed Army Institute of Research
Deployment Health Clinical Center, WRAMC
Navy Environmental Health Center
Naval Medical Center San Diego
Naval Medical Center Portsmouth
National Naval Medical Center
Wilford Hall Medical Center
Madigan Army Medical Center
Defense Manpower Data Center
All Basic Training Commands
Lackland Air Force Base, Fort Sill, Fort Jackson, Fort Knox, Fort Leonard Wood, RTC Great Lakes, MCRD Parris Island, MCRD San Diego, CGTC Cape May

Dept of Veterans Affairs
VA Medical Center, Boise
VA Medical Center, Seatt
CDC and NIOSH
Mayo Clinic
University of Iowa
Univ California San Diego
San Diego State Univ
Uniformed Services Univ
Univ of Alabama
Johns Hopkins Univ
Univ of North Carolina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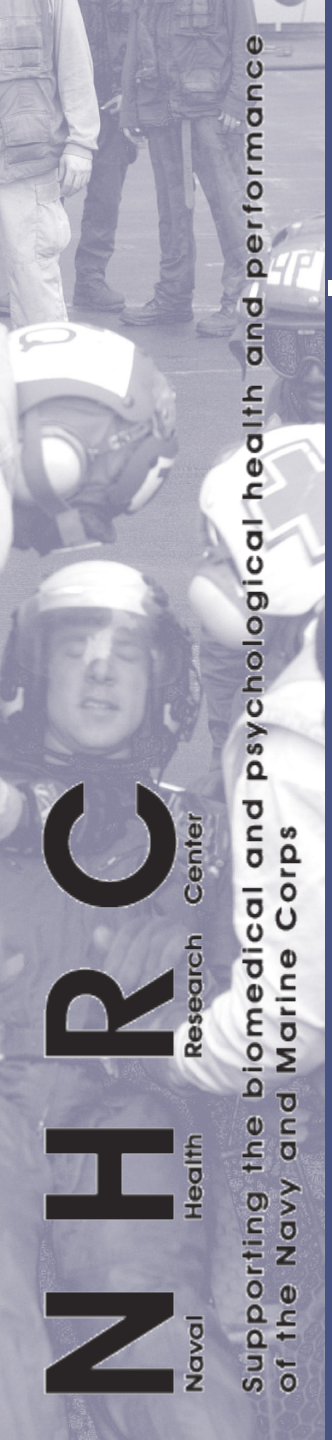
DoD Center for Deployment Health Research

Research Portfolio

30 active protocols in FY04, including:

- Southwest Asia vs. Bosnia vs. Gulf War hospitalizations
- In-theatre Gulf War hospitalizations
- DoD and VA Health Registry analyses
- Squalene antibodies in GW-era Seabees
- Ciprofloxicin use after bioterrorism in US mail
- Survey study of alternative medicine use
- Clinical trial of DEET, PB, and permethrin on cognitive function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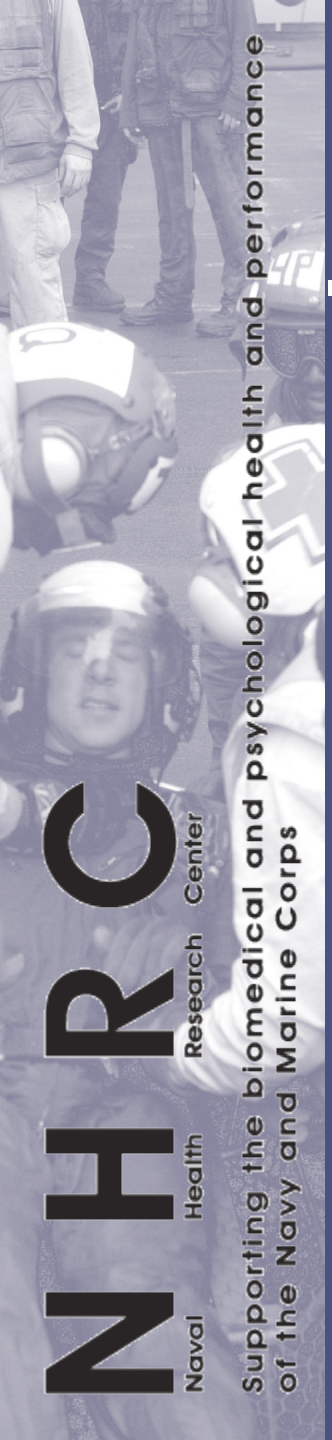
DoD Center for Deployment Health Research

Research Portfolio

- Anthrax vaccine and healthcare outcomes
- Anthrax vaccine and birth defects
- Smallpox vaccine and health outcomes
- Smallpox vaccine and peri-myocarditis (case-control)
- Smallpox vaccine and reproductive health, including the Smallpox Vaccine in Pregnancy Registry
- Effect of multiple simultaneous vaccinations on immune response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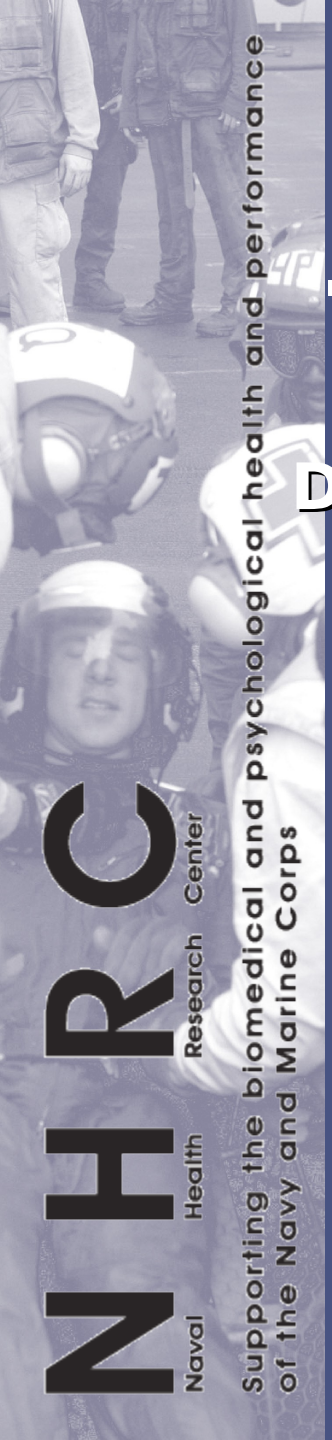
DoD Center for Deployment Health Research

Research Portfolio (Continued)

- Deployment to Op Enduring Freedom and Op Iraqi Freedom and healthcare outcomes
- Self-reported health pre- and post-deployment among Marines in the Recruit Assessment Program
- The DoD Birth and Health Registry
- The Recruit Assessment Program
- The Millennium Cohort Study



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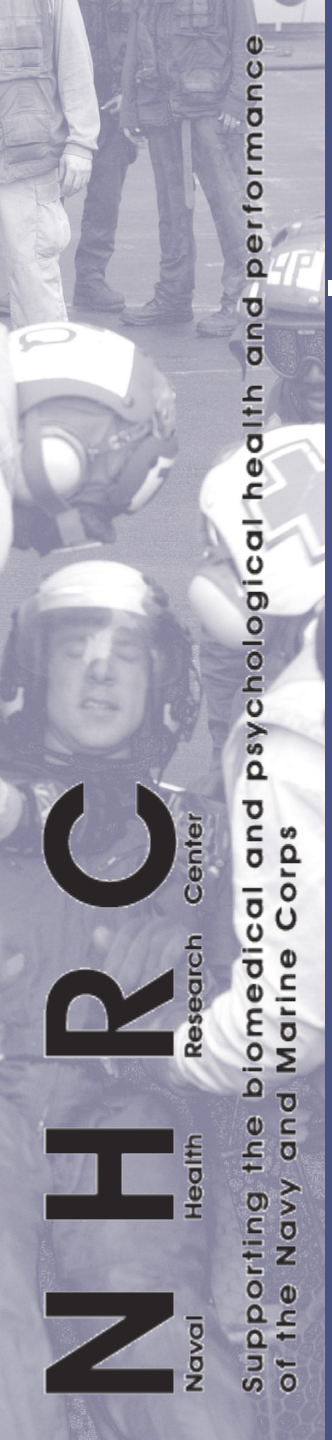
DoD Center for Deployment Health Research

Brief Project Descriptions

DoD Birth and Infant Health Registry

- **Surveillance for birth defects in military members was directed by Congress in 1998.**
- **DoD complements national surveillance efforts** (35 states have programs, 8 recognized as strong).
- **Requires strong partnership with CDC and the National Birth Defect Prevention Network.**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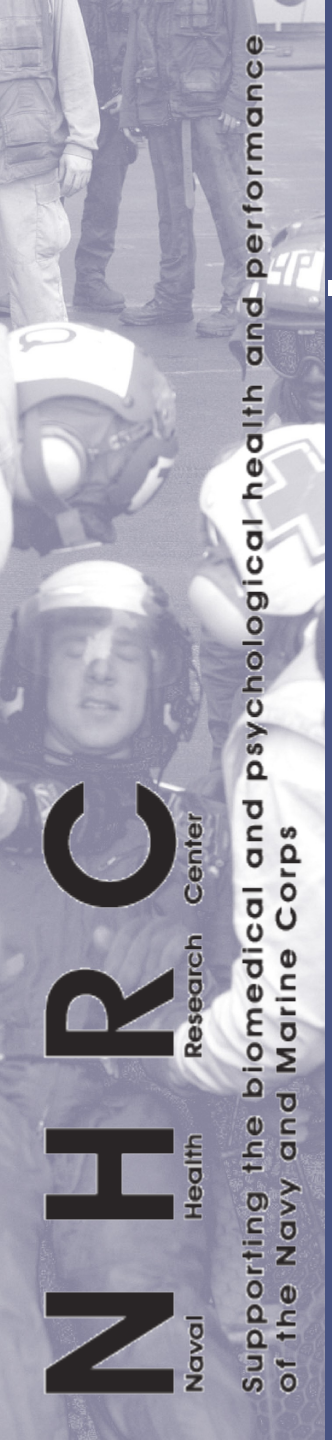
Brief Project Descriptions
Recruit Assessment Program

- Baseline health data are recognized as essential.
- Survey instrument piloted at MCRD San Diego.
- Final survey tool being honed through ASD/HA for use DoD-wide.
- Post-deployment (Op Enduring Freedom and Op Iraqi Freedom) evaluation of Marines who took RAP in 2001-02 is underway.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DoD Center for Deployment Health Research

Brief Project Descriptions
Millennium Cohort Study

- Directed by Institute of Medicine Reports and the Defense Authorization Act of 1999.
- Evaluates health of a large cohort through subjective and objective measures.
- Evaluates health over time; largest prospective study in military history.
- Approximately 140,000 members will be followed through 2022.

MILLENNIUM COHORT STUDY

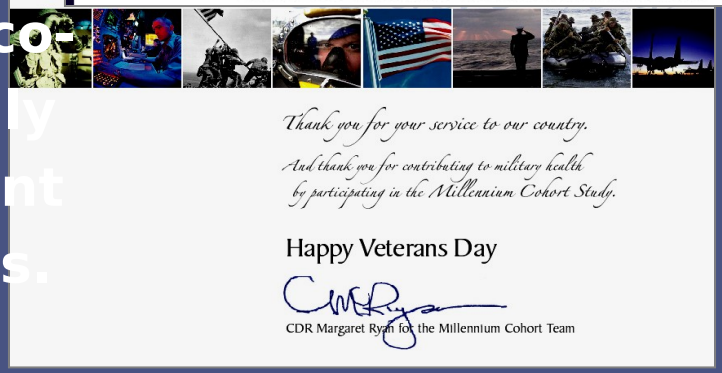
DoD Center for Deployment Health Research

Brief Project Descriptions

Millennium Cohort Study Progress

- Nearly 80,000 enrolled to date.
- Over 50% enrolled via secure website, www.millenniumcohort.org
- All services and the VA have representative co-investigators, carefully developing assessment of health outcomes.

questionnaire
about
participation
purpose
who we are
about
what is the Millennium Cohort Study ?
millennium cohort
about this study
go to survey
The Millennium Cohort Study is a scientific research project
recommended by the United S
the Department of Defense. Th
total of 140,000 U.S. military p
military service for up to 21 ye
The goal of the Millennium Co
health risks of military deployn
general military service.
The Millennium Cohort Study q
on demographic characteristics
and symptoms, health-related
physical and mental well-being.
This questionnaire will be sent to the same participants every three years.
The information gathered from this study will help guide future
60 MINUTES FREE LONG DISTANCE
MILLENNIUM COHORT STUDY
WWW.MILLENNIUMCOHORT.ORG
WWW.MILLENNIUMCOHORT.ORG
Endorsed by the Deputy Secretary of Defense


Thank you for your service to our country.
And thank you for contributing to military health by participating in the Millennium Cohort Study.
Happy Veterans Day
CDR Margaret Ryan for the Millennium Cohort Team

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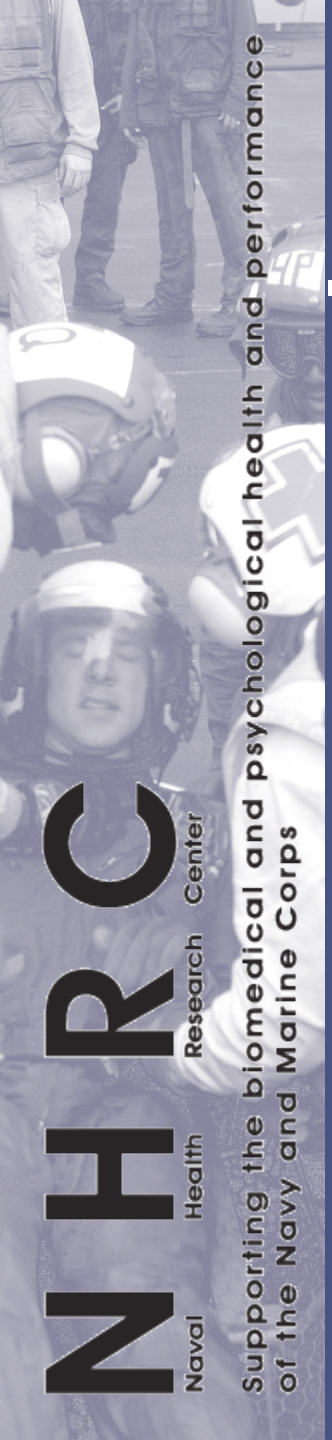
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DoD Center for Deployment Health Research

Review and Oversight

- NHRC Scientific Review and IRB
- Collaborating site IRBs, at least annually
- USAMRMC annual reports
- DoD TARA panel review of projects within DTO MD.25
- Competitively-funded projects receive initial and annual scientific 'peer-review', including AIBS reviews.
- Millennium Cohort Scientific Steering and Advisory Committee
- AFEB reviews annually.